AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES *

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (*If applicable*)
PR-CI-04-10961/0002	21 SEP 2004	PR-CI-04-10961	

6. ISSUED BY CODE	7. ADMINISTERED BY (*If other than item 6*) CODE
Environmental Protection Agency Cincinnati Procurement Operations Division Cincinnati, OH 45268	Not Applicable.

8. NAME AND ADDRESS OF CONTRACTOR (*No., street, county, State and ZIP Code*)	(✓)	9A. AMENDMENT OF SOLICITATION NO.
To All Offerors/Bidders.		PR-CI-04-10961
	✓	9B. DATED (*SEE ITEM 11*) 08/24/04
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (*SEE ITEM 13*)

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [X] is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (*Specify authority*) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (*such as changes in paying office, appropriation date, etc.*) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	c. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (*Specify type of modification and authority*)

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (*Organized by UCF section headings, including solicitation/contract subject matter where feasible.*)

See Page 2 for Amendment details.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (*Type or print*)	16A. NAME AND TITLE OF CONTRACTING OFFICER (*Type or print*)
	WILLIAM J. WISE

15B. CONTRACTOR/OFFEROR	15C DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (*Signature of person authorized to sign*)		/S/_____ (*Signature of Contracting Officer*)	21 SEP 2004

NSN 7540-01-152-8070 30-105 STANDARD FORM 30 (REV 10-83)
PREVIOUS EDITION UNUSABLE Prescribed by GSA
FAR (48 CFR) 52.243

AMENDMENTS TO THE SOLICITATION

A. IFB No. PR-CI-04-10961, covering the Cooling Tower Replacement project at the U.S. EPA AWBERC Facility in Cincinnati, Ohio, is amended to provide answers to additional questions posed by prospective bidders. Offerors shall acknowledge receipt of this Amendment No. 2 in accordance with the instructions in Block 11 on page 1 hereof. The due date for receipt of proposals remains unchanged.

B. ADDITIONAL QUESTIONS AND ANSWERS

The following questions/answers pertain to Specification Section 15711, Factory-Fabricated Cooling Towers:

Question 1: 2.2 E. #1 & 2. Regarding the construction methods. Baltimore Aircoil Company (BAC) recommends specifying that the cold water basins be continuously welded. The spec allow for either bolted or welded basins. Welded basins are preferred because they are leak resistant, especially as the towers age.

Answer: The cold water basin shall be welded type.

Question 2: 2.2 F. Casings: BAC utilizes FRP (Fiberglass) casing panels in their tower construction. FRP is utilized because it will not rust or corrode. FRP casing panels have a better long term corrosion resistance then galvanized steel panels. There are several BAC towers on the roof of this facility with FRP casing panels. Please confirm this is acceptable.

Answer: Type of casing (Galvanized steel or FRP): This is a Contractor's option. Either one is acceptable.

Question 3: 2.2 I. Water Distribution System: The specification calls for a galvanized steel pressurized spray tree. Both BAC & Marley provide gravity type hot water distribution basins. A pressurized spray tree is not available from either BAC or Marley. There are several BAC towers on the roof of this facility with gravity type distribution basins. Please confirm this is acceptable. We also recommend considering stainless steel hot water basins.

Answer: Type of distribution basin (Gravity or pressurized): This is a Contractor's option. Either one is acceptable.

Question 4: 2.2 M. Inlet Louvers: BAC utilizes FRP air inlet louvers. FRP inlet louvers have a better corrosion resistance then galvanized steel. There are several BAC towers on the roof of this facility with FRP air inlet louvers. Please confirm this is acceptable.

Answer: Type of louvers (Galvanized steel or FRP): This is a Contractor's option. Either one is acceptable.

Question 5: 2.2 O. Basin Covers: Stainless steel basin covers are specified with galvanized steel hot water basins. Covers and basins should be constructed of the same material to prevent dissimilar metal corrosion.

Answer: Basin covers shall be stainless steel as specified in Section 15711.

Question 6: 2.2 S. #2 Gear Drive: Specification calls for gear drive. BAC would like to provide belt drive in lieu of the specified gear drive. All of the existing BAC cooling towers at this facility along with countless other EPA facilities have been provided with belt drive. The advantages of belt drive include lower maintenance cost, greater reliability, reduced downtime, simplified replacement and lower operating costs.

BAC has been manufacturing towers with belt drive for over 30 years and has a great track record with this drive method. The belt utilized is a multi-banded belt that is designed for simple adjustment. Please advise if this is acceptable.

Answer: Fans need to be provided with gear drives as per Section 15711.

Question 7: 2.2. Y - Industrial Epoxy Coating - We recommend adding a requirement for an Industrial Epoxy Coating over top of all the cooling tower galvanized steel components. The purpose of the industrial coating is to add an additional layer of corrosion protection, increasing the equipment life. The make-up water in Cincinnati has a higher pH then normal. The typical pH range for make-up is 8.5 to 8.6. The recommended maximum pH for galvanized steel is 8.3. In order to use higher pH levels the towers will need to be pasivated. In lieu of pasivation the towers can be provided with an industrial epoxy coating that allows for a pH up to 9.0 without pasivation. I have attached a typical spec on the Industrial Epoxy Coating for your use. The spec is performance based.

Answer: Use of additional, industrial type epoxy coating is not required on this project.

Question 8: Drawing S102 Detail #7 - Cooling Tower Service Platforms: The structural drawings specify a cooling tower service platform along the air inlets of each tower. The drawings indicate that the service platform is to be built separate from the cooling tower. BAC manufactures this service platform that is supported from the cooling towers. Can the tower service platform be supported from the cooling towers?

Answer: Service platforms shall be as per structural and mechanical drawings.

The following question/answer pertains to Specification Section 15030, Electrical Requirements for Mechanical Equipment:

Question 9: 2.2 O Manufacturers – Variable Frequency Drives: We respectfully request that Saftronics be added as an acceptable manufacturer for the variable speed drives. Saftronics name brands GE/Fuji VFD's for the HVAC industry. Saftronics meets or exceeds the specification requirements without exception.

Answer: Saftronics is an acceptable manufacturer. However, the VFD shall comply with the requirements of the construction documents.

Other Questions:

Question 10: I am following up on the request to have Mueller added as an acceptable manufacturer for the Plate & Frame Heat Exchanger that is part of this project.

Answer: Mueller is an acceptable manufacturer. However, the plate and frame heat exchanger needs to comply with the requirements of the construction documents.

Question 11: Drawing M-301– How does the engineer envision that the piping atop and above the cooling towers is supported?

Answer: In accordance with manufacturer's recommendations, all piping above the footprint of the tower will be supported from the tower.

Question 12: The engineer shows the connection to the base mounted pump on M301 using a full size 90 with an eccentric reducer. When you review the engineer's detail on M002 the e reducing 90 is depicted. Given the limited amount of space within the pump room the method shown on the engineer's standard detail will need to be used in order to FIT within the limited space.

Answer: A short radius elbow needs to be used. Use of long radius does not leave enough access space around pump.

Question 13: With only 135 days to complete the requirement for SEISMIC engineering might be better served by using an ALLOWANCE and have Cannon start on this engineering immediately.

Answer: Refer to specification section 15241 for all seismic control requirements. Contractor is responsible for preparing all shop drawings that show all piping, equipment and required restraints/bracings.

Question 14: Are we assuming correctly that all hangers at and around the cooling towers and pump room need to be hot dipped galvanized?

Answer: Yes, all hangers at and around the cooling towers and pump room need to be hot dipped galvanized.

Question 15: The heat trace power requirements will be much greater than the (2) 3kw (208v) and (2) 1 kw (120v) circuits provided. Suggest providing a 208v heat trace control panel with main breaker and 30ma GFEP breakers with alarm contacts and a contactor controlled by ambient sensing "T"stat. (Spec. calls for line sensing "T"stat which is not recommended with the variety of pipe sizes and flow paths.)

Answer: A heat trace control panel and the kW requirement are shown on drawings. Ambient type thermostats are acceptable.

Question 16: Does 4" domestic CW (reduces to 1") require heat trace?

Answer: The 4" domestic CW line does not need heat tracing.

Question 17: Does condenser H2O supply and return ever shut down? If so, we recommend heat trace. Or is it drained?

Answer: During free cooling operations, only one tower will be operational and the related piping, as per construction drawings, needs to be heat traced. The remaining 4 towers and associated piping need to be drained during the winter season.

Question 18: Are simple GFEP breaker alarm contacts acceptable for communicating with BMS?

Answer: Simple GFEP breaker alarm contacts are acceptable. Coordinate with the controls manufacturer for communication with BMS.

Question 19: P&I drawing has notes on (3) valves indicating "Closed for winter". Does this mean that all piping for C/T #5 requires tracing?

Answer: Yes, that is correct.

– End of Amendment No. 2 –